QC ABSTRACT

Nameof Work:Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Materials	–	1	1	Cement Sand,	One Test Per Lot
2	Steel	8.02 Tonne	1	1	–	-
3	M20	80.19 Cum	5	5	Concrete Cube Compressive Strength	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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ಜಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಬಿ ಜಿ ಎಂ.ಪಿ
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CIVIL AIM CONSULTANTS & ENGINEERS Bangalore

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NK/W No.15/2022-23 Date: 25.05.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub division, BBMP, Bangalore.
AGENCY	:	**Sri. Nagaraj K,** Contractor, Bangalore.
NAME OF THE WORK	:	Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		April- 2022
DATE OF TESTING		23.05.2022 to 25.05.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Authorised Signatory

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/NK/W No.15/2022-23 Date : 25.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of Work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Date of Testing : 25.05.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	87	8.70	8.70	91.3	90-100
2.36	123	12.30	21.00	79.0	75-100
1.18	185	18.50	39.50	60.5	55-90
600 Micron	149	14.90	54.40	45.6	35-59
300 Micron	249	24.90	79.30	20.7	8-30
150 Micron	140	14.00	93.30	6.7	0-10

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Job No.: CACE/BBMP/NK/W No.15/2022-23 Date : 25.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Agency : Sri. Nagaraj K, Contractor, Bangalore.

Name of Work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Date of Testing : 25.05.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	17	1.70	1.70	98.3	90-100
1.18	34	3.40	5.10	94.9	70-100
600 Micron	85	8.50	13.60	86.4	40-100
300 Micron	251	25.10	38.70	61.3	5-70
150 Micron	475	47.50	86.20	13.8	0-15

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Job No.: CACE/BBMP/NK/W No.15/2022-23 Date : 25.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of Work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Date of Testing : 25.05.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	185	3.7	3.7	96.3	95-100
10	2439	48.8	52.5	47.5	25-55
4.75	1971	39.4	91.9	8.1	0-10

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Job No.: CACE/BBMP/NK/W No.15/2022-23 Date : 25.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of Work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Date of Testing : 25.05.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	191	1.27	1.27	98.73	95-100
20	8239	54.93	56.20	43.80	30-70
10	3259	21.73	77.93	22.07	10-35
4.75	2820	18.80	96.73	3.27	0-5

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Job No.: CACE/BBMP/NK/W No.15/2022-23 Date : 06.06.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of Work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 06.06.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.397	551	631	1.15	13.5
2	TMT	10	0.62	559	642	1.15	14.5
3	TMT	12	0.891	565	658	1.16	15

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Job No.: CACE/BBMP/NK/W No.15/2021-22

Date: 14.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of the work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2022	14.06.2022	8.175	339.2	15.08
2	07.06.2022	14.06.2022	8.183	345.1	15.34
3	07.06.2022	14.06.2022	8.156	350.2	15.56

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Job No.: CACE/BBMP/NK/W No.15/2021-22 Date: 05.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of the work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2022	05.07.2022	8.177	505.1	22.45
2	07.06.2022	05.07.2022	8.180	513.7	22.83
3	07.06.2022	05.07.2022	8.162	503.9	22.40

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Job No.: CACE/BBMP/NK/W No.15/2021-22 Date: 14.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of the work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2022	14.06.2022	8.175	341.9	15.20
2	07.06.2022	14.06.2022	8.163	346.2	15.39
3	07.06.2022	14.06.2022	8.157	355.8	15.81

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Job No.: CACE/BBMP/NK/W No.15/2021-22 Date: 05.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: Sri. Nagaraj K, Contractor, Bangalore.**
Name of the work	: Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2022	05.07.2022	8.175	503.2	22.36
2	07.06.2022	05.07.2022	8.188	511.9	22.75
3	07.06.2022	05.07.2022	8.167	508.2	22.59

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Job No.: CACE/BBMP/NK/W No.15/2021-22 Date: 14.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: Sri. Nagaraj K, Contractor, Bangalore.**
Name of the work	: Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2022	14.06.2022	8.168	336.3	14.95
2	07.06.2022	14.06.2022	8.154	345.2	15.34
3	07.06.2022	14.06.2022	8.146	352.8	15.68

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An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NK/W No.15/2021-22

Date: 05.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of the work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.06.2022	05.07.2022	8.198	502.2	22.32
2	07.06.2022	05.07.2022	8.165	480.6	21.36
3	07.06.2022	05.07.2022	8.146	488.9	21.73

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ...
ಬ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾ:ಆಗುಂಅ...

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/NK/W No.15/2021-22 Date: 21.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of the work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2022	21.06.2022	8.188	345.2	15.34
2	14.06.2022	21.06.2022	8.165	339.3	15.08
3	14.06.2022	21.06.2022	8.146	326.2	14.50

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ಬಾಗಲಗುಂಟೆ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

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Job No.: CACE/BBMP/NK/W No.15/2021-22 Date: 12.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: Sri. Nagaraj K, Contractor, Bangalore.**
Name of the work	: Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2022	12.07.2022	8.168	502.2	22.32
2	14.06.2022	12.07.2022	8.184	511.3	22.72
3	14.06.2022	12.07.2022	8.146	488.9	21.73

Note:

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Job No.: CACE/BBMP/NK/W No.15/2021-22 Date: 21.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of the work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2022	21.06.2022	8.168	336.3	14.95
2	14.06.2022	21.06.2022	8.184	345.5	15.36
3	14.06.2022	21.06.2022	8.146	352.8	15.68

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Nagaraj K, Contractor, Bangalore.**

Name of the work : Repairs reconstruction of damaged culvert in Dasarahalli in W.No.15, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2022	12.07.2022	8.184	505.2	22.45
2	14.06.2022	12.07.2022	8.165	513.6	22.83
3	14.06.2022	12.07.2022	8.146	484.2	21.52

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